

Paper Id: 

150301
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**B. PHARM**  
**(SEM III) THEORY EXAMINATION 2019-20**  
**PHARMACEUTICAL ORGANIC CHEMISTRY-II**

*Time: 3 Hours**Total Marks: 75***Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

- 1. Attempt all questions in brief. 10 x 2 = 20**
- a. Give structure and uses of DDT.
  - b. Give molecular orbital picture of benzene.
  - c. Why phenol is acidic in nature?
  - d. What is Friedal craft acylation? Explain with suitable reaction.
  - e. Give structure and uses of Naphthols.
  - f. Explain acid value.
  - g. Give Hawarth synthesis of phenanthrene.
  - h. Give stability order of cycloalkanes.
  - i. Draw any four aromatic structures.
  - j. Give structure and uses of diphenylmethane.

**SECTION B**

- 2. Attempt any two parts of the following: 2 x 10 = 20**
- a. Give structure, preparation and properties of phenol.
  - b. Give analytical, synthetic and other evidences in derivation of structure of benzene.
  - c. Write a note on theory of strainless ring.

**SECTION C**

- 3. Attempt any five parts of the following: 5 x 7 = 35**
- a. Give Huckel's theory with suitable examples.
  - b. Give structure, preparation and properties of benzoic acid.
  - c. Give effect of substituent on orientation of monosubstituted benzene compounds towards electrophilic substitution reaction.
  - d. Explain saponification and iodine number.
  - e. Give reactions of fat and oils.
  - f. Give Baeyer's strain theory and its limitation.
  - g. Give structure, preparation and properties of naphthalene.